

Section II  
Soil and Site Information

Building Site Development  
Custer and Pennington  
Counties, Praire Parts, South  
Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation.)

Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
AaA: Altvan-----	90	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
AaB: Altvan-----	90	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
AaC: Altvan-----	85	Somewhat limited Frost action	0.50	Very limited Cutbanks cave	1.00	Not limited	
ArA: Arvada-----	90	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Cutbanks cave	0.28 0.10	Very limited Sodium content Droughty	1.00 0.04
BaA: Baca-----	85	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Bb: Badland-----	85	Not rated		Not rated		Not rated	
BcB: Bankard-----	85	Somewhat limited Flooding	0.40	Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.63
BfA: Beckton-----	90	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Depth to saturated zone Cutbanks cave Too clayey	0.15 0.10 0.03	Very limited Sodium content Salinity	1.00 0.01

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
BhA: Beckton-----	50	Very limited Shrink-swell	1.00	Somewhat limited Depth to saturated zone	0.15	Very limited Sodium content	1.00
		Low strength	1.00	Cutbanks cave Too clayey	0.10 0.03	Salinity	0.01
Arvada-----	35	Very limited Shrink-swell	1.00	Somewhat limited Too clayey	0.28	Very limited Sodium content	1.00
		Low strength	1.00	Cutbanks cave	0.10	Droughty	0.04
BkA: Blackpipe-----	85	Very limited Low strength	1.00	Somewhat limited Depth to soft bedrock	0.42	Somewhat limited Depth to bedrock	0.42
		Shrink-swell	1.00	Cutbanks cave Too clayey	0.10 0.03		
BkB: Blackpipe-----	85	Very limited Low strength	1.00	Somewhat limited Depth to soft bedrock	0.42	Somewhat limited Depth to bedrock	0.42
		Shrink-swell	1.00	Cutbanks cave Too clayey	0.10 0.03		
BlA: Blackpipe-----	85	Very limited Low strength	1.00	Somewhat limited Depth to soft bedrock	0.42	Somewhat limited Depth to bedrock	0.42
		Shrink-swell	0.50	Cutbanks cave Too clayey	0.10 0.03		
BlB: Blackpipe-----	85	Very limited Low strength	1.00	Somewhat limited Depth to soft bedrock	0.42	Somewhat limited Depth to bedrock	0.42
		Shrink-swell	0.50	Cutbanks cave Too clayey	0.10 0.03		
BnC: Blackpipe-----	50	Very limited Low strength	1.00	Somewhat limited Depth to soft bedrock	0.42	Somewhat limited Depth to bedrock	0.42
		Shrink-swell	0.50	Cutbanks cave Too clayey	0.10 0.03		

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Norrest-----	35	Very limited Shrink-swell	1.00	Somewhat limited Depth to soft bedrock	0.42	Somewhat limited Depth to bedrock	0.42
		Low strength	1.00	Cutbanks cave	0.10		
BoA: Blackpipe-----	50	Very limited Low strength	1.00	Somewhat limited Depth to soft bedrock	0.42	Somewhat limited Depth to bedrock	0.42
		Shrink-swell	1.00	Cutbanks cave	0.10		
				Too clayey	0.03		
Wortman-----	35	Very limited Low strength	1.00	Somewhat limited Depth to soft bedrock	0.42	Very limited Sodium content	1.00
		Shrink-swell	1.00	Cutbanks cave	0.10	Depth to bedrock	0.42
				Too clayey	0.03		
BoB: Blackpipe-----	50	Very limited Low strength	1.00	Somewhat limited Depth to soft bedrock	0.42	Somewhat limited Depth to bedrock	0.42
		Shrink-swell	0.50	Cutbanks cave	0.10		
				Too clayey	0.03		
Wortman-----	40	Somewhat limited Low strength	0.78	Somewhat limited Depth to soft bedrock	0.42	Very limited Sodium content	1.00
		Shrink-swell	0.50	Cutbanks cave	0.10	Depth to bedrock	0.42
				Too clayey	0.03		
Bp: Bridgeport-----	85	Very limited Low strength Frost action Flooding	1.00 0.50 0.40	Somewhat limited Cutbanks cave	0.10	Not limited	
Ca: Cactusflat-----	90	Very limited Low strength Shrink-swell	1.00 1.00	Somewhat limited Too clayey Cutbanks cave	0.50 0.10	Very limited Too clayey Sodium content	1.00 1.00
Cb: Cactusflat-----	50	Very limited Low strength Shrink-swell	1.00 1.00	Somewhat limited Too clayey Cutbanks cave	0.50 0.10	Very limited Too clayey Sodium content	1.00 1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Weta-----	35	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Very limited Sodium content	1.00
CeA: Cedarpass-----	85	Very limited Low strength	1.00	Somewhat limited Cutbanks cave	0.10	Very limited Sodium content	1.00
CfA: Cedarpass-----	50	Very limited Low strength	1.00	Somewhat limited Cutbanks cave	0.10	Very limited Sodium content	1.00
Denby-----	35	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Very limited Too clayey Sodium content	1.00 1.00
Ch: Cedarpass-----	40	Very limited Low strength	1.00	Somewhat limited Cutbanks cave	0.10	Very limited Sodium content	1.00
Interior-----	25	Very limited Flooding Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Flooding Cutbanks cave	0.80 0.10	Very limited Flooding Sodium content	1.00 1.00
Badland-----	20	Not rated		Not rated		Not rated	
ClF: Colby-----	90	Very limited Slope Low strength	1.00 1.00	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope	1.00
CmC: Colby-----	55	Very limited Low strength Slope	1.00 0.37	Somewhat limited Slope Cutbanks cave	0.37 0.10	Somewhat limited Slope	0.37
Norka-----	30	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Cn: Colombo-----	85	Somewhat limited Frost action Flooding	0.50 0.40	Very limited Cutbanks cave	1.00	Not limited	
Co: Colombo-----	90	Very limited Flooding Frost action	1.00 0.50	Very limited Cutbanks cave Flooding	1.00 0.60	Somewhat limited Flooding	0.60
Cp: Colombo-----	50	Somewhat limited Frost action Flooding	0.50 0.40	Very limited Cutbanks cave	1.00	Not limited	
Urban Land-----	40	Not rated		Not rated		Not rated	
CuD: Conata-----	50	Very limited Shrink-swell	1.00	Very limited Depth to soft bedrock	1.00	Very limited Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Slope	1.00	Droughty	1.00
		Low strength	1.00	Too clayey	0.50	Slope	1.00
		Slope	1.00	Cutbanks cave	0.10	Too clayey	1.00
Hisle-----	35	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Depth to soft bedrock	0.88 0.42	Very limited Sodium content Droughty	1.00 0.72
		Slope	0.04	Cutbanks cave Slope	0.10 0.04	Depth to bedrock Slope	0.42 0.04
CyC: Cushman-----	85	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Depth to soft bedrock Cutbanks cave	0.42 0.10	Somewhat limited Depth to bedrock	0.42

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
CzD: Cushman-----	45	Very limited Low strength Slope  Shrink-swell	1.00 0.84  0.50	Somewhat limited Slope Depth to soft bedrock Cutbanks cave	0.84 0.42  0.10	Somewhat limited Slope Depth to bedrock	0.84 0.42
Shingle-----	35	Very limited Depth to soft bedrock Low strength Slope Shrink-swell	1.00 1.00 0.84 0.50	Very limited Depth to soft bedrock Slope Cutbanks cave	1.00 0.84 0.10	Very limited Depth to bedrock  Droughty Slope	1.00 0.94 0.84
DmA: Denby-----	85	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Very limited Too clayey Sodium content	1.00 1.00
Eg: Egas-----	90	Very limited Frost action  Flooding  Low strength Shrink-swell Depth to saturated zone	1.00 1.00  1.00 1.00 1.00	Very limited Depth to saturated zone Flooding  Cutbanks cave Too clayey	1.00 0.60  0.10 0.03	Very limited Salinity  Depth to saturated zone Flooding	1.00 1.00 0.60
EmA: Emigrant-----	90	Very limited Low strength  Shrink-swell	1.00 1.00	Somewhat limited Depth to soft bedrock Too clayey Cutbanks cave	0.42 0.12 0.10	Somewhat limited Depth to bedrock	0.42
EmB: Emigrant-----	90	Very limited Low strength  Shrink-swell	1.00 1.00	Somewhat limited Depth to soft bedrock Too clayey Cutbanks cave	0.42 0.12 0.10	Somewhat limited Depth to bedrock	0.42

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
EnD: Enning-----	50	Very limited Depth to soft bedrock Low strength Slope	1.00 1.00 1.00	Very limited Depth to soft bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Slope Carbonate content Droughty	1.00 1.00 1.00 0.91
Minnequa-----	35	Somewhat limited Low strength Slope	0.78 0.63	Somewhat limited Slope Depth to soft bedrock Cutbanks cave	0.63 0.42 0.10	Somewhat limited Slope Depth to bedrock	0.63 0.42
FaE: Fairburn-----	85	Very limited Depth to soft bedrock Low strength Slope Shrink-swell	1.00 1.00 1.00 0.50	Very limited Depth to soft bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.55
FgE: Fairburn-----	85	Very limited Slope  Depth to soft bedrock Low strength Shrink-swell	1.00 1.00 1.00 0.50	Very limited Depth to soft bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty Gravel content	1.00 1.00 0.71 0.14
FhE: Fairburn-----	50	Very limited Depth to soft bedrock Low strength Slope Shrink-swell	1.00 1.00 1.00 0.50	Very limited Depth to soft bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.55
Badland-----	30	Not rated		Not rated		Not rated	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
FoF: Fairburn-----	40	Very limited Slope	1.00	Very limited Depth to soft bedrock	1.00	Very limited Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10	Droughty	0.55
		Shrink-swell	0.50				
Orella-----	25	Very limited Slope	1.00	Very limited Depth to soft bedrock	1.00	Very limited Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.64	Droughty	1.00
		Shrink-swell	1.00	Cutbanks cave	0.10	Too clayey	1.00
						Sodium content	1.00
Badland-----	20	Not rated		Not rated		Not rated	
Gb: Glenberg-----	90	Somewhat limited Flooding	0.40	Very limited Cutbanks cave	1.00	Not limited	
GrE: Grummit-----	55	Very limited Slope	1.00	Very limited Depth to soft bedrock	1.00	Very limited Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Slope	1.00	Slope	1.00
				Too clayey	0.72	Droughty	1.00
				Cutbanks cave	0.10	Too clayey	1.00
Rock Outcrop, Acid--	30	Not rated		Not rated		Not rated	



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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
GsD: Grummit-----	55	Very limited Depth to soft bedrock Slope	1.00 1.00	Very limited Depth to soft bedrock Slope Too clayey Cutbanks cave	1.00 1.00 0.72 0.10	Very limited Depth to bedrock Droughty Slope Too clayey	1.00 1.00 1.00
Urban Land-----	30	Not rated		Not rated		Not rated	
Ha: Haverson-----	90	Somewhat limited Shrink-swell Flooding	0.50 0.40	Very limited Cutbanks cave	1.00	Not limited	
Hc: Haverson-----	90	Very limited Flooding Low strength Shrink-swell	1.00 0.78 0.50	Very limited Cutbanks cave Flooding	1.00 0.80	Very limited Flooding	1.00
HpB: Hisle-----	90	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Depth to soft bedrock Cutbanks cave	0.88 0.42 0.10	Very limited Sodium content Droughty Depth to bedrock	1.00 0.72 0.42
HrC: Hisle-----	45	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Depth to soft bedrock Cutbanks cave	0.88 0.42 0.10	Very limited Sodium content Droughty Depth to bedrock	1.00 0.72 0.42
Rock Outcrop, Soft--	35	Not rated		Not rated		Not rated	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
HsB: Hisle-----	65	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Depth to soft bedrock Cutbanks cave	0.88 0.42 0.10	Very limited Sodium content Droughty Depth to bedrock	1.00 0.72 0.42
Slickspots, Dry----	20	Not rated		Not rated		Not rated	
Hv: Hoven-----	85	Very limited Depth to saturated zone Low strength Shrink-swell Ponding Frost action	1.00 1.00 1.00 1.00 0.50	Very limited Depth to saturated zone Ponding Too clayey Cutbanks cave	1.00 1.00 0.28 0.10	Very limited Depth to saturated zone Sodium content Ponding	1.00 1.00 1.00
Hv: Hoven Variant-----	85	Very limited Shrink-swell Ponding  Depth to saturated zone Low strength Frost action	1.00 1.00 1.00 1.00 0.50	Very limited Ponding Depth to saturated zone Too clayey Cutbanks cave	1.00 1.00 0.72 0.10	Very limited Ponding Depth to saturated zone Too clayey	1.00 1.00 1.00
In: Interior-----	90	Very limited Low strength Shrink-swell Flooding	1.00 0.50 0.40	Somewhat limited Cutbanks cave	0.10	Very limited Sodium content	1.00
Io: Interior-----	90	Very limited Flooding Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Flooding Cutbanks cave	0.80 0.10	Very limited Flooding Sodium content	1.00 1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
IrB: Interior-----	30	Very limited Flooding Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Flooding Cutbanks cave	0.80 0.10	Very limited Flooding Sodium content	1.00 1.00
Cedarpass-----	25	Very limited Low strength	1.00	Somewhat limited Cutbanks cave	0.10	Very limited Sodium content	1.00
Denby-----	25	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Very limited Too clayey Sodium content	1.00 1.00
JaA: Jayem-----	90	Not limited		Very limited Cutbanks cave	1.00	Not limited	
JaC: Jayem-----	85	Not limited		Very limited Cutbanks cave	1.00	Not limited	
KtA: Kyle-----	90	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave	1.00 1.00	Very limited Too clayey Droughty	1.00 0.01
KyA: Kyle-----	90	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave	1.00 1.00	Very limited Too clayey Droughty	1.00 0.01
KyB: Kyle-----	85	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave	1.00 1.00	Very limited Too clayey Droughty	1.00 0.01
KyC: Kyle-----	85	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave	1.00 1.00	Very limited Too clayey Droughty	1.00 0.01

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
LaB: Larvie-----	90	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave Depth to soft bedrock	1.00 1.00 0.42	Very limited Too clayey Droughty Depth to bedrock	1.00 0.56 0.42
LaD: Larvie-----	85	Very limited Shrink-swell Low strength Slope	1.00 1.00 0.37	Very limited Too clayey Cutbanks cave Depth to soft bedrock Slope	1.00 1.00 0.42 0.37	Very limited Too clayey Droughty Depth to bedrock Slope	1.00 0.56 0.42 0.37
LhC: Larvie-----	50	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave Depth to soft bedrock	1.00 1.00 0.42	Very limited Too clayey Droughty Depth to bedrock	1.00 0.56 0.42
Hisle-----	35	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Depth to soft bedrock Cutbanks cave	0.88 0.42 0.10	Very limited Sodium content Droughty Depth to bedrock	1.00 0.72 0.42
Lo: Lohmiller-----	85	Very limited Low strength Shrink-swell Flooding	1.00 1.00 0.40	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Very limited Too clayey	1.00
Lp: Lohmiller-----	90	Very limited Flooding Shrink-swell Low strength	1.00 0.50 0.22	Somewhat limited Flooding Cutbanks cave	0.60 0.10	Very limited Too clayey Flooding	1.00 0.60
M-W: Miscellaneous Water-	100	Not rated		Not rated		Not rated	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
MaB: Manvel-----	85	Very limited Low strength	1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
MeC: Manvel-----	55	Very limited Low strength	1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
Minnequa-----	30	Somewhat limited Low strength	0.78	Somewhat limited Depth to soft bedrock Cutbanks cave	0.42 0.10	Somewhat limited Depth to bedrock	0.42
MgC: Manvel-----	50	Very limited Low strength	1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
Urban Land-----	35	Not rated		Not rated		Not rated	
MoE: Midway-----	85	Very limited Slope	1.00	Very limited Depth to soft bedrock	1.00	Very limited Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10	Droughty	0.98
		Shrink-swell	1.00	Too clayey	0.03		
MosE: Midway-----	85	Very limited Slope	1.00	Very limited Depth to soft bedrock	1.00	Very limited Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10	Content of large stones	0.99
		Shrink-swell	1.00			Droughty	0.86

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
MpD: Midway-----	55	Very limited Depth to soft bedrock Low strength Shrink-swell Slope	1.00 1.00 1.00 1.00	Very limited Depth to soft bedrock Slope Cutbanks cave Too clayey	1.00 1.00 0.10 0.03	Very limited Depth to bedrock Slope Droughty	1.00 1.00 0.98
Urban Land-----	30	Not rated		Not rated		Not rated	
MrC: Minnequa-----	60	Somewhat limited Low strength	0.78	Somewhat limited Depth to soft bedrock Cutbanks cave	0.42 0.10	Somewhat limited Depth to bedrock	0.42
Penrose-----	30	Somewhat limited Depth to soft bedrock	1.00	Very limited Depth to soft bedrock Cutbanks cave	1.00 0.10	Very limited Depth to bedrock Droughty Content of large stones	1.00 0.83 0.01
NdE: Nihill-----	85	Very limited Slope Frost action	1.00 0.50	Very limited Cutbanks cave Slope	1.00 1.00	Very limited Slope Gravel content Droughty Content of large stones	1.00 0.33 0.13 0.01
NeD: Nihill-----	80	Very limited Slope Frost action	1.00 0.50	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope Gravel content Droughty Content of large stones	1.00 1.00 0.26 0.01
NgA: Norka-----	90	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
NgB: Norka-----	90	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
NhA: Norka-----	50	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Weta-----	35	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Very limited Sodium content	1.00
NkD: Norrest-----	85	Very limited Shrink-swell	1.00	Somewhat limited Depth to soft bedrock	0.42	Somewhat limited Depth to bedrock	0.42
		Low strength Slope	1.00 0.37	Slope Cutbanks cave	0.37 0.10	Slope	0.37
NuA: Nunn-----	90	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Not limited	
NuB: Nunn-----	90	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Not limited	
NuC: Nunn-----	85	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Not limited	
NvA: Nunn-----	55	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Not limited	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Beckton-----	35	Very limited Shrink-swell	1.00	Somewhat limited Depth to saturated zone	0.15	Very limited Sodium content	1.00
		Low strength	1.00	Cutbanks cave Too clayey	0.10 0.03	Salinity	0.01
NvC: Nunn-----	50	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Not limited	
Beckton-----	35	Very limited Shrink-swell	1.00	Somewhat limited Depth to saturated zone	0.15	Very limited Sodium content	1.00
		Low strength	1.00	Cutbanks cave Too clayey	0.10 0.03	Salinity	0.01
NwA: Nunn-----	60	Very limited Low strength Shrink-swell Frost action	1.00 1.00 0.50	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Not limited	
Urban Land-----	30	Not rated		Not rated		Not rated	
ObE: Orella-----	50	Very limited Depth to soft bedrock Low strength Shrink-swell Slope	1.00 1.00 1.00 1.00	Very limited Depth to soft bedrock Slope Too clayey Cutbanks cave	1.00 1.00 0.64 0.10	Very limited Depth to bedrock Droughty Slope Too clayey Sodium content	1.00 1.00 1.00 1.00
Badland-----	35	Not rated		Not rated		Not rated	



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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
OeE: Orella-----	35	Very limited Depth to soft bedrock Low strength Shrink-swell Slope	1.00 1.00 1.00 0.84	Very limited Depth to soft bedrock Slope Too clayey Cutbanks cave	1.00 0.84 0.64 0.10	Very limited Depth to bedrock Droughty Too clayey Sodium content Slope	1.00 1.00 1.00 0.84
Interior-----	30	Very limited Flooding Low strength Shrink-swell	1.00 1.00 0.50	Somewhat limited Flooding Cutbanks cave	0.80 0.10	Very limited Flooding Sodium content	1.00 1.00
Badland-----	20	Not rated		Not rated		Not rated	
OtA: Ottumwa-----	90	Very limited Low strength Shrink-swell	1.00 1.00	Somewhat limited Too clayey Cutbanks cave	0.72 0.10	Very limited Too clayey	1.00
OtB: Ottumwa-----	85	Very limited Low strength Shrink-swell	1.00 1.00	Somewhat limited Too clayey Cutbanks cave	0.72 0.10	Very limited Too clayey	1.00
OvC: Ottumwa-----	55	Very limited Low strength Shrink-swell	1.00 1.00	Somewhat limited Too clayey Cutbanks cave	0.72 0.10	Very limited Too clayey	1.00
Razor-----	30	Very limited Low strength  Shrink-swell	1.00 1.00	Somewhat limited Depth to soft bedrock Too clayey Cutbanks cave	0.42 0.28 0.10	Very limited Too clayey  Depth to bedrock	1.00 0.42
Ow: Owanka-----	90	Very limited Low strength Shrink-swell	1.00 1.00	Somewhat limited Cutbanks cave	0.10	Not limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Ox: Owanka-----	50	Very limited Low strength Shrink-swell	1.00 1.00	Somewhat limited Cutbanks cave	0.10	Not limited	
Beckton-----	40	Very limited Shrink-swell  Low strength	1.00  1.00	Somewhat limited Depth to saturated zone Cutbanks cave Too clayey	0.15  0.10 0.03	Very limited Sodium content  Salinity	1.00  0.01
PdF: Penrose-----	65	Very limited Slope  Depth to soft bedrock	1.00  1.00	Very limited Depth to soft bedrock Slope  Cutbanks cave	1.00  1.00  0.10	Very limited Depth to bedrock  Slope  Droughty Content of large stones	1.00  1.00  0.83 0.01
Rock Outcrop, Sandy-	25	Not rated		Not rated		Not rated	
PeB: Pierre-----	90	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Cutbanks cave Too clayey Depth to soft bedrock	1.00 0.88 0.42	Very limited Too clayey Droughty Depth to bedrock	1.00 0.44 0.42
PeC: Pierre-----	85	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Cutbanks cave Too clayey Depth to soft bedrock	1.00 0.88 0.42	Very limited Too clayey Droughty Depth to bedrock	1.00 0.44 0.42

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
PeD: Pierre-----	85	Very limited Shrink-swell Low strength Slope	1.00 1.00 0.63	Very limited Cutbanks cave Too clayey Slope Depth to soft bedrock	1.00 0.88 0.63 0.42	Very limited Too clayey Slope Droughty Depth to bedrock	1.00 0.63 0.44 0.42
PgD: Pierre-----	65	Very limited Shrink-swell Low strength Slope	1.00 1.00 0.63	Very limited Cutbanks cave Too clayey Slope Depth to soft bedrock	1.00 0.88 0.63 0.42	Very limited Too clayey Slope Droughty Depth to bedrock	1.00 0.63 0.44 0.42
Grummit-----	30	Somewhat limited Depth to soft bedrock Slope	1.00 0.37	Very limited Depth to soft bedrock Too clayey Slope Cutbanks cave	1.00 0.72 0.37 0.10	Very limited Depth to bedrock Droughty Too clayey Slope	1.00 1.00 1.00 0.37
PhB: Pierre-----	55	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Cutbanks cave Too clayey Depth to soft bedrock	1.00 0.88 0.42	Very limited Too clayey Droughty Depth to bedrock	1.00 0.44 0.42
Hisle-----	35	Very limited Shrink-swell Low strength	1.00 1.00	Somewhat limited Too clayey Depth to soft bedrock Cutbanks cave	0.88 0.42 0.10	Very limited Sodium content Droughty Depth to bedrock	1.00 0.72 0.42
PkC: Pierre-----	60	Very limited Shrink-swell Low strength Slope	1.00 1.00 0.63	Very limited Cutbanks cave Too clayey Slope Depth to soft bedrock	1.00 0.88 0.63 0.42	Very limited Too clayey Slope Droughty Depth to bedrock	1.00 0.63 0.44 0.42

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Urban Land-----	35	Not rated		Not rated		Not rated	
Ps: Orthents, Gravelly--	100	Very limited Slope	1.00	Very limited Cutbanks cave Slope	1.00 1.00	Very limited Slope Droughty Gravel content	1.00 0.42 0.25
RaB: Razor-----	85	Very limited Low strength  Shrink-swell	1.00  1.00	Somewhat limited Depth to soft bedrock Too clayey Cutbanks cave	0.42  0.28 0.10	Very limited Too clayey  Depth to bedrock	1.00  0.42
RaC: Razor-----	85	Very limited Low strength  Shrink-swell	1.00  1.00	Somewhat limited Depth to soft bedrock Too clayey Cutbanks cave	0.42  0.28 0.10	Very limited Too clayey  Depth to bedrock	1.00  0.42
RbD: Razor-----	50	Very limited Low strength Shrink-swell  Slope	1.00 1.00  0.63	Somewhat limited Slope Depth to soft bedrock Too clayey Cutbanks cave	0.63 0.42  0.28 0.10	Very limited Too clayey Slope  Depth to bedrock	1.00 0.63  0.42
Midway-----	35	Very limited Depth to soft bedrock Low strength Shrink-swell Slope	1.00 1.00 1.00 0.37	Very limited Depth to soft bedrock Slope Cutbanks cave Too clayey	1.00  0.37 0.10 0.03	Very limited Depth to bedrock  Droughty Slope	1.00  0.98 0.37
Rv: Riverwash-----	85	Not rated		Not rated		Not rated	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
SbF: Samsil-----	85	Very limited Shrink-swell	1.00	Very limited Depth to soft bedrock	1.00	Very limited Too clayey	1.00
		Slope	1.00	Slope	1.00	Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Too clayey	0.97	Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10	Droughty	1.00
ScE: Samsil-----	55	Very limited Shrink-swell	1.00	Very limited Depth to soft bedrock	1.00	Very limited Too clayey	1.00
		Slope	1.00	Slope	1.00	Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Too clayey	0.97	Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10	Droughty	1.00
Pierre-----	30	Very limited Shrink-swell	1.00	Very limited Cutbanks cave	1.00	Very limited Too clayey	1.00
		Low strength	1.00	Slope	1.00	Slope	1.00
		Slope	1.00	Too clayey	0.88	Droughty	0.44
				Depth to soft bedrock	0.42	Depth to bedrock	0.42
SdF: Samsil-----	55	Very limited Shrink-swell	1.00	Very limited Depth to soft bedrock	1.00	Very limited Too clayey	1.00
		Slope	1.00	Slope	1.00	Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Too clayey	0.97	Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10	Droughty	1.00
Rock Outcrop, Soft--	30	Not rated		Not rated		Not rated	
SeA: Satanta-----	90	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
SeB: Satanta-----	90	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
SeC: Satanta-----	85	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
SgA: Satanta-----	55	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Beckton-----	35	Very limited Shrink-swell	1.00	Somewhat limited Depth to saturated zone Cutbanks cave Too clayey	0.15	Very limited Sodium content	1.00
		Low strength	1.00		0.10 0.03	Salinity	0.01
SkA: Satanta-----	45	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Urban Land-----	45	Not rated		Not rated		Not rated	
SkB: Satanta-----	45	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
Urban Land-----	45	Not rated		Not rated		Not rated	
SmA: Savo-----	90	Very limited Low strength Shrink-swell	1.00 1.00	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Not limited	
SmB: Savo-----	90	Very limited Low strength Shrink-swell	1.00 1.00	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Not limited	

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
SmC: Savo-----	85	Very limited Low strength Shrink-swell	1.00 1.00	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Not limited	
SoB: Savo-----	55	Very limited Low strength Shrink-swell	1.00 1.00	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Not limited	
Urban Land-----	35	Not rated		Not rated		Not rated	
StE: Schamber-----	55	Very limited Slope	1.00	Very limited Slope Cutbanks cave	1.00 1.00	Very limited Slope Droughty Gravel content	1.00 1.00 0.38
Samsil-----	30	Very limited Shrink-swell	1.00	Very limited Depth to soft bedrock	1.00	Very limited Too clayey	1.00
		Slope	1.00	Slope	1.00	Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Too clayey	0.97	Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10	Droughty	1.00
SuE: Shingle-----	85	Very limited Slope	1.00	Very limited Depth to soft bedrock	1.00	Very limited Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10	Droughty	0.94
		Shrink-swell	0.50				
SvF: Shingle-----	50	Very limited Slope	1.00	Very limited Depth to soft bedrock	1.00	Very limited Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10	Droughty	0.94
		Shrink-swell	0.50				

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Rock Outcrop, Sandstone-----	35	Not rated		Not rated		Not rated	
SzB: Swanboy-----	90	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave	1.00 1.00	Very limited Too clayey Droughty	1.00 0.07
TfA: Tilford-----	90	Somewhat limited Frost action	0.50	Somewhat limited Cutbanks cave	0.10	Not limited	
VbD: Valent-----	90	Very limited Slope	1.00	Very limited Cutbanks cave Slope	1.00 1.00	Very limited Slope Droughty	1.00 0.28
VbwB: Valent-----	50	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Droughty	0.28
Wortman-----	30	Very limited Shrink-swell  Low strength	1.00  1.00	Somewhat limited Depth to soft bedrock Cutbanks cave Too clayey	0.42  0.10 0.03	Very limited Sodium content  Depth to bedrock Droughty	1.00  0.42 0.01
W: Water-----	100	Not rated		Not rated		Not rated	
WaA: Wanblee-----	90	Very limited Low strength  Shrink-swell	1.00  0.50	Somewhat limited Depth to soft bedrock Cutbanks cave	0.42  0.10	Somewhat limited Depth to bedrock	0.42
WbB: Wanblee-----	55	Very limited Low strength  Shrink-swell	1.00  0.50	Somewhat limited Depth to soft bedrock Cutbanks cave	0.42  0.10	Somewhat limited Depth to bedrock	0.42



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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
Wortman-----	30	Somewhat limited Low strength	0.78	Somewhat limited Depth to soft bedrock	0.42	Very limited Sodium content	1.00
		Shrink-swell	0.50	Cutbanks cave Too clayey	0.10 0.03	Depth to bedrock	0.42
WeA: Weta-----	85	Very limited Low strength Shrink-swell	1.00 0.50	Somewhat limited Cutbanks cave Too clayey	0.10 0.03	Very limited Sodium content	1.00
Wh: Whitelake-----	85	Very limited Frost action Shrink-swell	1.00 0.50	Very limited Cutbanks cave Depth to saturated zone	1.00 0.95	Very limited Sodium content	1.00
WkA: Whitewater-----	90	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave Depth to soft bedrock	1.00 1.00 0.42	Very limited Too clayey Sodium content Droughty Depth to bedrock	1.00 1.00 0.98 0.42
WoB: Whitewater-----	50	Very limited Shrink-swell Low strength	1.00 1.00	Very limited Too clayey Cutbanks cave Depth to soft bedrock	1.00 1.00 0.42	Very limited Too clayey Sodium content Droughty Depth to bedrock	1.00 1.00 0.98 0.42
Orella-----	35	Very limited Depth to soft bedrock Low strength Shrink-swell	1.00 1.00 1.00	Very limited Depth to soft bedrock Too clayey Cutbanks cave	1.00 0.64 0.10	Very limited Depth to bedrock Droughty Too clayey Sodium content	1.00 1.00 1.00 1.00
WwB: Wortman-----	85	Somewhat limited Low strength Shrink-swell	0.78 0.50	Somewhat limited Depth to soft bedrock Cutbanks cave Too clayey	0.42 0.10 0.03	Very limited Sodium content Depth to bedrock	1.00 0.42

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Map symbol and soil name	Pct. of map unit	Local roads and streets		Shallow excavations		Lawns and landscaping	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
ZnD: Zigweid-----	50	Very limited Low strength Shrink-swell Slope	1.00 0.50 0.37	Somewhat limited Slope Cutbanks cave	0.37 0.10	Somewhat limited Slope	0.37
Nihill-----	35	Somewhat limited Frost action Slope	0.50 0.37	Very limited Cutbanks cave Slope	1.00 0.37	Somewhat limited Slope Gravel content Droughty Content of large stones	0.37 0.33 0.13 0.01